250	RADIO AND MICROWAVE ABSORPTION	286	.Ion beam pulsing means with
	WAVEMETERS	005	detector synchronizing means
251	ELECTRICALLY NEUTRAL MOLECULAR OR	287	With time-of-flight indicator
	ATOMIC BEAM DEVICES AND	288	.With sample supply means
	METHODS	289	.With evacuation or sealing means
252.1	CALIBRATION OR STANDARDIZATION METHODS	290	.Cyclically varying ion selecting field means
253	GEOLOGICAL TESTING OR IRRADIATION	291	Circular ion path
254	.With drill or drilling	292	Laterally resonant ion path
255	.With sampling	293	Alternating field ion selecting
256	.Well testing apparatus and		means
	methods	294	.Static field-type ion path-
257	With casing collar detection		bending selecting means
258	By interface of fluids	295	With variable beam shifting
259	With placement of tracer in or		field means
	about well	296	Plural diverse-type static
260	Tracer being or including		path-bending fields
	radioactive material	297	For causing complex ion path
261	With detector or detector	298	Magnetic field path-bending
	circuit control		means
262	With particular detector signal	299	With detector
	circuit	300	With detector control or
263	With detector signal		regulating
	modulation or carrier wave	301	METHODS OF DETERMINING OIL
264	Having plural detectors		PRESENCE, CONTAMINATION OR
267	With radiation control to		CONCENTRATION
	detector	302	RADIATION TRACER METHODS
268	With well-engaging means	303	.Radioactive tracer methods
269.1	With source and detector	304	METHODS INCLUDING SEPARATION OR
269.2	With plural types of detectors		NONRADIANT TREATMENT OF TEST
269.3	Having gamma source and gamma		MATERIALS
	detector	305	ELECTRON ENERGY ANALYSIS
269.4	Having neutron source and neutron detector	306	INSPECTION OF SOLIDS OR LIQUIDS BY CHARGED PARTICLES
269.5	Having thermal neutron	307	.Methods
207.5	detector	308	.Including a radioactive source
269.6	Having neutron source and	309	.Positive ion probe or microscope
207.0	gamma detector		type
269.7	With plural gamma detectors	310	.Electron probe type
269.8	With detection in plural	311	.Electron microscope type
207.0	consecutive time intervals	440.11	.Analyte supports
265	Plural detectors	441.11	With air lock or evacuation
266	With spacing or direction of		means
200	detectors	442.11	With object moving or
271	CODED RECORD AND READERS;		positioning means
	INVISIBLE RADIANT ENERGY TYPE	443.1	With heat transfer or
281	IONIC SEPARATION OR ANALYSIS		temperature-indication means
282	.Methods	315.3	SOURCE WITH CHARGED PLATE-TYPE
283	With collection of ions		DETECTOR
284	For material recovery	316.1	WITH INFRARED OR THERMAL PATTERN
285	.With plural, simultaneous ion		RECORDING
	generators	317.1	.Thermal copying of documents
	_	318	With image transfer device

319 324	With conveying means CORONA IRRADIATION	339.09	With calibration steps in measurement process
325	.Charging of moving object	339.1	Determining moisture content
326	.Charging of objects	339.11	Measuring infrared radiation
580	SOURCE WITH RECORDING DETECTOR	337.11	reflected from sample
581	.Using a stimulable phosphor	339.12	Using sample absorption for
582	2 1	337.12	chemical composition analysis
	With image recording	339.13	With gaseous sample
583	For specialized application	339.13	
584	With image read-out	339.14	Detecting infrared emissive objects
585	Including stimulation	339.15	
586	Including emission detection		Sensing flame or explosion
587	With adjustment of conditions	340 341.1	Methods
588	With erasure	341.1	With irradiation or heating of
589	With conveyance	241 0	object or material
590	With a recirculation path	341.2	Including probe
591	.Including a light beam read-out	341.3	Including polarizing means
328	AUTOMATIC/SERIAL DETECTION OF	341.4	With semiconductor sample
	SIMILAR SOURCES	341.5	With calibration
329	RECORD PROJECTORS	341.6	Heating of object or material
330	INFRARED-TO-VISIBLE IMAGING	341.7	With multiple sources
331	.Including liquid crystal detector	341.8	Measuring infrared radiation reflected from sample
332	.Including detector array	342	Locating infrared emissive
333	.Including image tube-type		objects
	detector	343	With means to transmission-test
334	.Including means for scanning		contained fluent material
331	field of view	344	Plural series signalling means
335	CLOUD OR BUBBLE CHAMBERS	345	Plural beam/detector pairs
336.1	INVISIBLE RADIANT ENERGY	346	Plural temperature sensitive
330.1	RESPONSIVE ELECTRIC SIGNALLING		signalling means
336.2	.Superconducting type	347	With movable beam deflector or
337	.With heating of luminophors		focussing means
338.1	.Infrared responsive	348	Controlled by signalling means
338.2	Ferroelectric, ferromagnetic,	349	Plural signalling means
330.2	photomagnetic types	350	With periodic beam varying
338.3	Pyroelectric type		means
338.4	Semiconducting type	351	With periodic beam varying
338.5	With means to analyze	331	means
330.3	uncontained fluent material	352	With temperature modifying
339.01	With selection of plural	332	means
339.01	discrete wavelengths or bands	353	With beam deflector or
339.02		333	focussing means
	Including detector array	354.1	.Signalling means controls
339.03	Including temperature control	331.1	
339.04	means		incident radiation
	<pre>meansIncluding temperature</pre>	356.1	incident radiation .Flow metering
		356.1 356.2	
339.05	Including temperature		.Flow metering
339.05	Including temperature determining means	356.2	.Flow meteringUsing radioactive tracer
339.05 339.06	Including temperature determining meansWith additional noninfrared	356.2 357.1	.Flow metering.Using radioactive tracer.Fluent material level signalling
	Including temperature determining meansWith additional noninfrared wavelengths	356.2 357.1	.Flow metering .Using radioactive tracer .Fluent material level signalling .With means to inspect passive
339.06	Including temperature determining meansWith additional noninfrared wavelengthsWith radiation source	356.2 357.1 358.1	.Flow metering .Using radioactive tracer .Fluent material level signalling .With means to inspect passive solid objects
339.06	 Including temperature determining means With additional noninfrared wavelengths With radiation source Including spectrometer or spectrophotometer 	356.2 357.1 358.1 359.1	.Flow meteringUsing radioactive tracer .Fluent material level signalling .With means to inspect passive solid objectsRectilinearly moving object
339.06 339.07	Including temperature determining meansWith additional noninfrared wavelengthsWith radiation sourceIncluding spectrometer or	356.2 357.1 358.1 359.1 360.1	.Flow meteringUsing radioactive tracer .Fluent material level signalling .With means to inspect passive solid objectsRectilinearly moving objectWith relative movement means

363.01	With radiant energy source	381	With radioactive source
363.02	Body scanner or camera	382	With means to ionize the gas
363.03	With positron source	383	Emissive fluent type, or with
363.04	Emission tomography		transmissive fluent material
363.05	With detector support	384	Radioactive
363.06	Using coded aperture	385.1	Plural chambers or three or
363.07	With distortion correction		more electrodes
363.08	With detector support	385.2	Spark chambers
363.09	With calibration	386	With a periodic electrode bias
363.1	With a collimator		varying means
364	With fluent source handling or	387	With periodic electrode bias
265	collecting means	200	supply
365	Ultraviolet light source	388	With indicator
366	Plural electric signalling	389	.Including ionization means
0.45	means	390.01	.Neutron responsive means
367	Plural or composite luminophor	390.02	Radiographic analysis
368	With optics	390.03	With dose measurement
369	With output system	390.04	Composition analysis
361 C	Chemiluminescent detection	390.05	For moisture content
370.01	.Semiconductor system	390.06	Density/thickness/consistency
370.02	Alpha particle detection system		analysis
370.03	Fission fragment/fissionable	390.07	Spectrum analysis
	isotope detection system	390.08	Using time-of-flight
370.04	Self-powered system		spectrometers
370.05	Neutron detection system	390.09	Using diffractometers
370.06	Discrimination-type system	390.1	Including beam control
370.07	Dose or dose rate measurement	390.11	Including a scintillator
370.08	Imaging system	390.12	Position-sensitive
370.09	X-ray or gamma-ray system	391	Methods
370.1	Position sensitive detection	392	With indicating or recording means
270 11	system	393	.With radiant energy source
370.11	Scintillation system	394	
370.12	Of material other than		.Plural signalling means
252 12	germanium, diamond, or silicon	395	Methods
370.13	Containing cadmium telluride	200	PHOTOCELLS; CIRCUITS AND
370.14	Particular detection structure	001 1	APPARATUS
	(e.g., MOS, PIN)	201.1	.Photocell controls its own
370.15	Temperature control or	001 0	optical systems
	compensation system	201.2	Automatic focus control
371	Methods	201.3	Of a microscope
372	.Ultraviolet light responsive	201.4	Active autofocus
	means	201.5	With optical storage medium;
373	With means to transmission-test		e.g., optical disc, etc.
	contained fluent material	201.6	Based on triangulation
374	.Including a radiant energy	201.7	Based on contrast
	responsive gas discharge	201.8	Based on image shift
	device	201.9	Light beam wavefront phase
375	Methods		adaptation
376	With electroscopic indicators	203.1	Following a target (e.g., a
377	With charge generator		star or instrument pointer or
378	With charge storage means		other object) other than a
379	titi bla managa ba musus las blas man		pattern
	With means to supply the gas		paccern
380	Radioactive gas, or with gas- borne radioactive material	203.2	Target illuminated by artificial light source

202 2	0.16.1	FF0 04	
203.3	Self-luminous target	559.24	Transversal measurement (e.g.,
203.4	Sun		width, diameter, cross-
203.5	Cathode-ray tube scanning	FF0 0F	sectional area)
203.6	Airborne target, or	559.25	Lumber
	spaceborne target other than	559.26	Longitudinal measurement
	the sun (e.g., star or	FF0 0F	(e.g., length or spacing)
202 7	missile)	559.27	Thickness
203.7	With moving reticle in	559.28	With translucent material
202	optical path	559.29	Measuring position
202	<pre>Following a pattern (e.g., line or edge)</pre>	559.3	With alignment detection
548		559.31	With triangulation
340	<pre>Controlling web, strand, strip, or sheet</pre>	559.32	Measuring rate of motion or flow (change of position)
549	Cathode-ray tube	559.33	With robotics
204	Adjusting optical system to	559.34	Lead or wire bond inspection
	balance brightness in plural	559.35	Centroid
	paths	559.36	Edge
205	Controlling light source	559.37	Angular orientation (e.g.,
	intensity	337.37	skew)
550	.Interference pattern analysis	559.38	Determining range from
	(e.g., spatial filtering or		detector
	holography)	559.39	With comparison to reference or
551	.Signal isolator		standard
552	.Solid state light source	559.4	With indication of presence of
553	Array or matrix		material or feature
554	.Flame light source	559.41	With foreign particle
559.01	.With circuit for evaluating a		discrimination circuitry
	web, strand, strip, or sheet	559.42	Discontinuity detection (e.g.,
559.02	Evaluation of photographic film		hole, crack)
559.03	Sequential detector arrangement	559.43	Break detection
559.04	Evaluation by regions, zones,	559.44	Identifying marking, pattern,
	or pixels		or indicia
559.05	With imaging	559.45	With defect discrimination
559.06	With scanning		circuitry
559.07	With imaging	559.46	With camera or plural
559.08	With camera		detectors
559.09	With polarization	559.47	With counting means
559.1	With calibration	559.48	With transversal scan
559.11	Detection of both reflected and	559.49	With moving reflector
	transmitted light	206	.Photocell controlled circuit
559.12	Beam interruption or shadow	206.1	Having means to generate
559.13	With laser source		positional information in at
559.14	With rotation of material		least one plane of a target
559.15	With plural detectors		moving relative to one or more
559.16	Detection of diffuse light		photodetectors
559.17	With diffusion optics	206.2	Detection of positional
559.18	With discrimination of		information in two or more
	discrete light diffusing		planes (e.g., azimuth and
	region		elevation; hour angle and
559.19	Measuring dimensions		declination)
559.2	With comparison to reference	206.3	With moving reticle in
	or standard		optical path
559.21	Volume	555	Including coded record
559.22	Profile	556	Document verification or graph
559.23	With triangulation		reader

557	With means to position, direct, or detect record	227.14	Condition responsive light guide (e.g., light guide is
558	Stereoplotters		physically affected by
564	With circuit for evaluating a		parameter sensed which results
	fluent material		in light conveyed to the
565	With comparison		photocell)
207	Electron multiplier	227.15	With detection of macroscopic
208.1	Plural photosensitive image		break in fiber
	detecting element arrays	227.16	With detection of fiber
208.2	Plural photosensitive nonimage		microbend caused by parameter
	detecting elements		affecting fiber
208.3	With electronic scanning	227.17	Causing polarization change
208.4	Used to switch an electrical		in fiber
	circuit or device on or off	227.18	Causing light spectral
208.5	With photodetector output		frequency/wavelength change
	ratioing other than by bridge	227.19	With coherent
	or push-pull circuits		interferrometric light
208.6	With specific relative	227.2	With imaging
	positional geometry of	227.21	With light chopping or
	photosensitive elements (e.g.,		modulation
	an annular photosensitive	227.22	Keyboard or other manual
	element surrounding a		switch controlled
	coaxially mounted	227.23	With spectral frequency/
	photosensitive element)		wavelength discrimination
210	Bridge and push-pull circuits	227.24	With coupling enhancement
214 R	Special photocell or electron		means
	tube circuits	227.25	Fluid coupling
214 P	Photographic control	227.26	With scanning
214 D	Light dimmers	227.27	With coherent interferrometric
214 A	Amplifier type		light
214 LA	Light amplifier type	227.28	With specific configuration of
214 LS	Switching type		light conductor components
214 VT	Vacuum tube type	005 00	with respect to each other
214 PR	Photosensitive rheostat type	227.29	With specific illumination or
214 SG	Self-generating type		viewing orientation of light conductor relative to viewed
214.1	Special photocell		
214 AG	Automatic gain control		object (e.g., light normal to, and detector at 45 degree
214 AL	Ambient light responsive		and detector at 45 degree angle to, viewed object)
214 В	Ambient light desensitizing	227.3	With variable orientation of
	means	227.5	light conductor relative to
214 C	Compensation		viewed object (e.g.,
214 DC	Digital circuitry		goniometer)
214 L	Logarithmic/linear signal	227.31	Side or edge illuminated light
214 RC	Rate of change		conductor or collector
214 SF	Slave flash	227.32	End illuminated light
214 SW	Electronic switch		conductor with noncircular
215	.Combined with diverse-type device	566	geometric cross sectionIncluding coded record
216	.Optical or pre-photocell system	568	Digital information
227.11	Light conductor	569	Card type
227.12	Optical delay line	570	Tape, drum, or disc types
227.13	Light pen	573	
		574	Scattered or reflected light
		575	Plural paths
		575	ratar pacins

576 577	Sample holder or supplyVolume or level	239	.Housings (in addition to cell casing)
221	Controlled by article, person, or animal	396 R	WITH CHARGED PARTICLE BEAM DEFLECTION OR FOCUSSING
222.1	Inanimate article	397	.With detector
222.2	Particle detection	398	.With target means
223 R	Conveyor or chute	399	Secondary emissive type
223 B	Bottles	400	With means to convey or guide
224	Article and light ray		the target
	relatively moved during	396 ML	.Magnetic lens
	sensing	423 R	ION GENERATION
225	Polarizing	424	.Methods
226	Color (e.g., filter or	425	.With sample vaporizing means
	spectroscope)	426	.Arc type
228	Integrating sphere	427	.Electron bombardment type
229	Light valve (e.g., iris	423 P	.Photoionization type
	diaphragm)	423 F	.Field ionization type
231.1	Actuated by dynamic external	428	FLUENT MATERIAL CONTAINMENT,
	physical quantity		SUPPORT OR TRANSFER MEANS
231.11	Actuated by gauge element	429	.With temperature control
	deflection	430	.With valve or pump actuator
231.12	Gyroscopes	431	.With cleaning means
231.13	Shaft angle transducers	432 R	.With irradiating source or
231.14	Incremental shaft readers;		radiating fluent material
	i.e., with means to generate	433	Including a movable surface
	increments of angular shaft		transfer means
	rotation	434	Including a gravity-type
231.15	With plural gear driven		transfer means
	discs	435	Including a flowthrough
231.16	Using phase difference of		transfer means
	output signals from plural	436	Flow-enclosed radiation source
	photodetectors	437	Tortuous path type
231.17	With means to indicate a	438	With a flow-modifying surface
231.18	complete shaft rotationPosition indicating shaft	432 PD	<pre>Parent-daughter isotope separators</pre>
	encoders with means to	453.11	SUPPORTED FOR NONSIGNALLING
	generate a unique signal for each specific angular shaft		OBJECTS OF IRRADIATION (E.G., WITH CONVEYOR MEANS)
001 10	position	454.11	.With source support
231.19	Pressure-responsive light	455.11	Source and object encasement
220	valves		(e.g., sterilizers)
230	Reflection type(e.g., mirror	458.1	LUMINOPHOR IRRADIATION
020	galvanometer)	459.1	.Methods
232	Light chopper type	461.1	.With ultraviolet source
233	Rotary	461.2	Biological cell identification
578.1	Plural light sources or optical	462.1	.Self-luminous article
224	paths	463.1	Dials, pointers, gauges, and
234	Means for moving optical system		bands
235	Repetitious path	464.1	Pendants
236	Rotary motion	465.1	Manual operators or luminous
237 R	Hoods, grating, baffles,		attachments therefor
227 0	diaphragms, masks	466.1	Covers, keys, or luminous
237 G 238	Gratings (moire fringes)		attachments therefor
430	.Temperature control of photocell		

467.1	Reticles, gun sights or with	505.1	RADIATION CONTROLLING MEANS
	optical element	506.1	.Shielded receptacles for
472.1	INVISIBLE RADIATION RESPONSIVE		radioactive sources
	NONELECTRIC SIGNALLING	507.1	Having plural storage
473.1	.Methods		compartments or plural nested
474.1	.Optical change type		receptacles
475.2	.Photographic type	515.1	.Shields
482.1	With radiation filter,	516.1	Garments
	modifier, or shield (e.g.,	517.1	Construction elements or
	dosimeter badges)		building parts
483.1	.Luminescent device	518.1	With neutron absorption
484.2	Requiring an additional energy		material
	source to cause luminescence	519.1	Flexible
484.3	With thermally-stimulated	522.1	SOURCE SUPPORTS
	phosphor	526	MISCELLANEOUS
484.4	<pre>With optically-stimulated phosphor</pre>		
484.5	Dosimeter		
485.1	With light excluding casing	CROSS-R	EFERENCE ART COLLECTIONS
	having an aperture		
486.1	With plural luminescent	900	OPTICAL LIQUID LEVEL SENSORS
	material or plural luminescent	901	.With gap between light guide
	containing layers or areas		elements (includes open light
487.1	With optical member of material		path preset)
	to directly modify luminous	902	With closed light path preset
	energy	903	With prism contacting liquid
488.1	Plural planar layer type	904	.With single light guide element
489	ION COLLECTORS		to guide light in a continuous
491.1	MEANS TO ALIGN OR POSITION AN		path
	OBJECT RELATIVE TO A SOURCE OR	905	With longitudinal irregularity
492.1	DETECTOR IRRADIATION OF OBJECTS OR	906	With large scale longitudinal
T/Z.I	MATERIAL		bend
492.2	.Irradiation of semiconductor	907	With portions of light guide
1,2.2	devices	0.00	coating or cladding removed
492.21	Ion bombardment	908	With waveguide twisted about
492.22	Pattern control	0.00	its longitudinal axis
492.23	Variable beam	909	METHODS AND APPARATUS ANCILLARY
492.24	Photocathode projection	010	TO STIMULABLE PHOSPHOR SYSTEMS
492.3	.Ion or electron beam irradiation	910	FOOD SAMPLE ANALYSIS USING
493.1	RADIANT ENERGY GENERATION AND		INVISIBLE RADIANT ENERGY SOURCE
170.1	SOURCES		SOURCE
494.1	.Plural radiation sources		
495.1	Including an infrared source		
496.1	.With container for radioactive	EODETON	ADM COLLECTIONS
	source and radiation directing or selectable shielding		ART COLLECTIONS
497.1	With means to move source between shielded and unshielded position	FOR 000	CLASS-RELATED FOREIGN DOCUMENTS
498.1	With pivoted or rotatable radiation shield	DIGESTS	
503.1	.With radiation modifying member	D.T. ~ 1	
504 R	Ultraviolet or infrared source	DIG 1	PASSIVE INTRUSION DETECTORS
504 H	Hand-held	DIG 2	RADON DETECTION